

FlexBOX

Main Axis: The primary axis along which flex items are placed (horizontal by default).

Cross Axis: The perpendicular axis to the main axis (vertical by default).

1: flex-direction

row: Default; items align horizontally from left to right.

row-reverse: Items align horizontally from right to left.

column: Items align vertically from top to bottom.

column-reverse: Items align vertically from bottom to top.

2: justify-content

flex-start: Items align to the start of the container.

flex-end: Items align to the end of the container.

center: Items are centered along the main axis.

space-between: Items are spaced with equal space between, but no space at the edges.

space-around: Items are spaced with equal space around them.

space-evenly: Items have equal space between and around them.

3: align-items

flex-start: Aligns items to the start of the cross axis.

flex-end: Aligns items to the end of the cross axis.

center: Centers items along the cross axis.

stretch: Stretches items to fill the container along the cross axis (default).

baseline: Aligns items based on their text baseline.

4: flex-wrap

nowrap: All items stay on a single line (default).

wrap: Items wrap onto multiple lines from top to bottom.

wrap-reverse: Items wrap onto multiple lines from bottom to top.

5: align-content

The **align-content** property in flexbox is essential for managing how multiple rows of items are aligned within a flex container, especially when there is extra space on the cross-axis.

flex-start, **flex-end**, **center**, **space-between**, **space-around**, **space-evenly**.

6: Flex Items

1: order: The **order** property controls the visual order of flex items within a flex container. **Default:** **order: 0;**

2: `flex-grow`: The `flex-grow` property defines how much a flex item should grow relative to other items when extra space is available in the flex container. Default: `flex-grow: 0;`

3: `flex-shrink`: The `flex-shrink` property defines how much a flex item should shrink relative to other items when the container is too small to fit all items at their initial size. **Default:** `flex-shrink: 1;`

4: The `flex-basis` property sets the initial size of a flex item before any extra space is distributed or the item is allowed to grow or shrink. `flex-basis: auto;` (Uses the item's content size, or width/height if explicitly set.)

5. `align-self`: The `align-self` property allows you to override the `align-items` property for a specific flex item. This means each item can have its own cross-axis alignment (e.g., vertical alignment if `flex-direction: row`), even if the container has a global alignment rule.